WHAT WE CLAIM IS:

- A sliding roof device for vehicles, comprising: a movable panel to open or close an opening portion provided at a vehicle roof; a pair of guide rails provided at both sides in width direction of the opening portion and extending in longitudinal direction of the vehicle;
- an operation mechanism guided by the guide rail and supporting the movable panel;
- a drive device driving the operation mechanism; and a spur tooth rack belt connecting the operation mechanism with the drive device; wherein the drive device includes a drive gearwheel engaging with the spur gear rack belt, and the drive gearwheel is formed with variable tooth thickness along the gear width.
- A slide door opening and closing device for vehicles according to claim 1, wherein the drive device is formed as trapezoidal cone.